

Distribution
VITERIA EUGANEA
Saonara (Padua) - Italy**The Company**

VITERIA EUGANEA is a leading organisation working in the fastening elements field for the industry, with a very wide range of bolts and screws and nuts and bolts unified to Standards UNI DIN ISO, complete with particular drawing products realised in corporate field, with ascertained and controlled quality according to the client specifications. The company is constituted by a production unit and a directional control unit with storage, order preparation and distribution, where highly operational technologies allow to interact from any place, in full autonomy and in real time, not only to obtain information on the availability in storage, on the order loads and on the shipments, but also to process updated and customised requests. The company has the widest and complete range at national level, with over 40.000 references always available; is able to make day deliveries even in packages with customised labels or to prepare kits upon request, of up to 8 different articles.

**Problems and Objectives**

The continuous and long-lasting collaboration between System Logistics and Viteria Euganea has allowed maintaining high technological standards of its own structures and to continuously grow giving answers that the ever more demanding market requests in terms of punctuality, quality and supply service.

The realisation of a highly technological plant grants the user leadership in a sector where client service has become an essential prerogative. The plants realised by System Logistics allow the client to increase the sales volumes and maximise the level of client service with the switching of the order preparing system from "man to goods" to "goods to man". This means that the operators in charge of picking perform a punctual, precise and competitive work enabling maximum efficiency throughout the entire process, in this way eliminating all possible counting or reference errors. The operators' attention to high qualification is aimed at the preparation of the packages, already printed with the clients' logo. Finally, all paper supports of the orders are eliminated, having a single summarising document that includes quantity, description, weights, technical features and assembly indications, applied to the boxes and to the pallets of the ready for shipment materials.

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The solution and the achieved results

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Tight between roads and channels, the only way of expanding is upwards; therefore, two self-holding storages were realised rested on solid impaled concrete platforms: the first 20 m high, having storage capacity of 37.000 boxes and served by 6 automatic rack feeders for the moving of 2 UDC simultaneously; the second, 31 m high, having a capacity of 23.000 pallets or metal containers places that uses 6 rack feeders for the movement.

The goods arriving from production and from suppliers in pallets, not always normalised, are automatically inserted in the pallets storage. According to an established work program, all this material transits in 7 acceptance stations: here it is scrupulously checked to ascertain full correspondence with the unified Standards and is subdivided in the two UDC storages, boxes and pallets according to an automatically updated procedure, depending on the selling quantities.

The new shaped UDC boxes are automatically inserted in the storage using LGV, whereas the metal containers or pallets enter the corresponding storage through a loop connecting circuit with SVL on track.

This same system is able to have the pallet UDC reach the 6 picking bays where the operators, driven by the PC, pick the wanted quantities producing the client order and processing only the order that for that reference have a quantity and weight above a specific set quantity. These orders are arranged on appropriate pallets and then moved using a further LGV vehicle to the shipment area in the meeting point bays to wait receipt of the prepared packages from the box picking bays (department on a platform). Here the operators prepare boxes with sizes appropriate to the quantity and weight.

Using automated conveyors and descenders, the materials reaches the meeting point, where it is loaded on to pallets from the same client. Once the two partial orders are joined in the same batch, the LGC vehicle delivers it to the packag-



ing through the extendable film and from here to the automatic shipment storage (capacity 590 UDC). Upon arrival of the carriers for transportation, the batches are recalled in sequence and stowed inside the lorry provided with transport documents produced by the managing system.

TECHNICAL FEATURES TABLE

Box storage

UDC: metal box capacity Kg. 200
 dimensions: 600x400xh200 mm
 N. 6 Double bench rack feeders h=20m
 N. 4 Picking bays
 N. 12 Meeting points with pallets storage
 N. 1 Entry to acceptance area
 N. 1 Exit from acceptance area
 N. 1 LGV vehicle

Moving ability:

N. 500 UDC in input/time
 N. 500 UDC in output/time
 Number order rows per operator: average 35/hour

Metal containers and pallets storage

UDC: Metal box capacity Kg. 1.000
 Dimensions: 800 x 1.200 x h=450/700/800/1.000 mm
 N. 6 Rack feeders h=30m
 N. 1 Input in goods arrival area
 N. 7 Goods acceptance bays
 N. 14 Inputs to automatic storage of the acceptance bays
 N. 1 Picking bay for external work count
 N. 15 SWL loop circuit shuttles
 N. 5 Picking bays for shipping orders preparation
 N. 12 Meeting points with boxes storage
 N. 1 LGV vehicle

Moving ability:

N. 200 UDC in input/time
 N. 200 UDC in output/time
 Number order rows per operator: average 23/hour

Shipment storage: capacity 600 UDC

UDC: Max. pallets capacity Kg. 1.000
 Dimensions: 800 x 600/1.200 x h=500/800/1.000 mm
 N. 1 Rack feeder h= 8 m
 N. 1 Entry with elevator in shipping area
 N. 1 Pallets wrapping system with extendable film
 N. 1 Weighing and labelling system
 N. 2 Outputs in vehicles loading area
 Moving ability:
 N. 90 UDC in output/time